

## **Radiation Testing and Tracking System**

### **Accountability**

Accounting for the M88 Alarm will be by means of a Naval Message. The message will be forwarded to the Commander (Code 835-3), Marine Corps Logistics Bases, Albany, Georgia 31704-1128 by the applicable supply officer.

The supply officer will account for the M88 Detector by annotating the M88 Detector serial number and lot number; and the module serial number and lot number on the stock records, and the consolidated memorandum receipt issued to the unit responsible officer. A history file for each M88 Detector will be maintained on the receipt transaction cards for all actions occurring to the item (i.e., date of receipt, wipe test date and result, movement to another agency, etc.).

The supply officer will submit all messages to COMMARCORLOGBASES, Albany, GA (Code 835-3) and ensure that the responsible officer(s) maintains adequate records to meet necessary requirements.

Each shipment of M88 Detectors will be accompanied by two shipment transaction cards/mainfests, attached to the DD 1348 (DoD single line item release/receipt document) and/or other shipping documentation. Upon receipt of the M88 Detector, the supply officer will verify serial and lot numbers of M88 Detector(s) and module(s) received. If serial numbers on shipment cards/mainfests are the same as the serial and lot numbers on the M88 Detector, the supply officer will record the data and submit receipt message to COMMARCORLOGBASES, Albany, GA (Code 835-3). If serial and lot number data of accompanying documentation does not correspond with actual M88 Detector and module serial and lot numbers, the supply officer will record the data for actual serial and lot numbers received in the accounting records, submit message to COMMARCORLOGBASES, Albany, GA (Code 835-3) to include complete data of discrepancy. M88 Detectors received without serial number cards or lists must be registered. The supply officer will record the data in the accounting records and submit message to COMMARCORLOGBASES, Albany, GA (Code 835-3) citing date of receipt, shipper document number, and any other information available, within five working days.

### **Shipment Procedures**

Shipment of the M88 Detector shall be in accordance with Code of Federal Regulations Title 49 (49 CFR). For shipments of the M88

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Detector, it is recommended that the nearest Traffic Management Officer be contacted.

All shipments will be directed by COMMARCORLOGBASES, Albany, GA (Code 835-3). Prior to shipment, the supply officer will forward message to COMMARCORLOGBASES, Albany, GA (Code 835-3) and move serial number card for the applicable piece of equipment to inactive file.

#### **Recovered M88 Detector**

A M88 Detector that is confiscated or otherwise recovered (i.e., previously dropped from accountability by Report of Survey, inventory adjustment, or board of investigation), will be registered and reported via message to: COMMARCORLOGBASES, Albany, GA (Code 835-3) as an inventory gain. The supply officer will record serial numbers in the accounting records and file serial number cards in active file

#### **Initiation of Investigation of Lost M88 Detector**

The responsible officer will report a lost M88 Detector by telephone within 12 hours to the supply officer. The supply officer will immediately report the potential loss to Commander (Codes 835-3 or 136), Marine Corps Logistics Bases, Albany, GA by telephone (DSN 567-6534 or 567-6213.6215, Commercial (912)439-6534 or (912)439-6213/6215 and identify the serial and lot number(s) involved. The supply officer will file investigation data in the accounting records and submit messages to COMMARCORLOGBASES, Albany, GA (Codes 835-3 and 136). Upon conclusion of the investigation, the supply officer will forward a copy of the investigative documentation via message to COMMARCORLOGBASES, Albany, GA (Codes 835-3 and 136). The supply officer will record the results of the investigation in the accounting records and submit the results via message to COMMARCORLOGBASES, Albany, GA (Codes 835-3 and 136). Marine Corps Logistics Bases, Albany, GA will take action in accordance with the following procedures:

1. OPREP-3 NAVY BLUE REPORT. An OPREP-3 NAVY BLUE REPORT shall be made in accordance with OPNAVINST 3100.6 for the conditions listed below. Commandant of the Marine Corps (SD), NAVSEASYS COM (07R) and NAVSEADET RASO shall be information addressees to the OPREP-3 NAVY BLUE REPORT.

- a. Radiation incidents defined in 10 CFR 20.2202 involving loss of control of licensed material that may have caused or threaten to cause an individual to receive in a period of 24 hours:

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- (1) A total effective dose equivalent exceeding 5 rems.
  - (2) An eye dose equivalent exceeding 15 rems.
  - (3) A shallow-dose equivalent to the skin or extremities exceeding 50 rems.
- b. Theft or loss of radioactive material sources contained in the M22 Alarm.
  - c. Source leak test results which indicate a total removable activity of 0.005 microcuries. The report shall specify the equipment involved, test results and corrective action.
  - d. Radiation incidents defined in 10 CFR 30.50 that include:
    - (1) Any event that prevents immediate protective actions necessary to avoid radiation exposure that could exceed regulatory limits.
    - (2) An unplanned contamination event that causes access to the contaminated area to be restricted for more than 24 hours.
    - (3) Any event in which safety equipment is disabled or fails to function as designed when it is required by regulation to prevent radiation exposure from exceeding regulatory limits or to mitigate consequences of an accident and redundant equipment is not available or does not perform.
    - (4) An unplanned medical treatment of a contaminated individual.
    - (5) An unplanned fire or explosion damaging the M22 Alarm
  - e. Substantial safety hazard.

2. Written Notification/report of Exposures, Radiation Levels and Concentrations of Radioactive Material Exceeding Limits and Follow-up Reports. A written report shall be made within 15 days to CNO (N45) with copies to NAVSEASYS COM (07R) and NAVSEADET RASO for the conditions listed below. The report shall describe details of the incident or overexposure and planned corrective steps to prevent a recurrence, and information required by the regulation requiring the

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report. Each report shall have a separate section which lists the name, address, telephone number, social security number, date of birth and exposure estimate for each individual exposed.

a. Radiation incident (10 CFR 20.2202) reported by OPREP-3 NAVY BLUE per paragraph 1a above.

b. Reports of exposures, radiation levels and concentrations of radioactive material exceeding the limits defined in 10 CFR 20.2203 which include doses exceeding the following:

(1) Occupational dose of an individual exceeding limits specified in NAVMED P-5055, Chapter 4.

(2) Dose of any minor exceeding 10 percent of annual occupational limits (500 mrem).

(3) Radiation levels (whether or not actual exposure of individuals is involved) in an unrestricted area that exceeds 10 times the limits for an unrestricted area.

(4) Limits for an individual member of the public.

c. Theft or loss of radioactive material sources (10 CFR 20.2201) reported by OPREP-3 NAVY BLUE.

d. Follow up reports required by 10 CFR 30.50

3. Notification/written Report of Significant Abnormal Occurrence. In the event of a significant abnormal occurrence not covered by the notification requirements above (such as temporary loss of custody), the command shall take appropriate measures to return the situation to normal. The command shall then notify NAVSEADET RASO, review the matter, and document the review. Documentation of the review shall include preparation of a narrative summary which identifies the cause of the occurrence and specifies corrective action taken to prevent recurrence. A copy of the narrative summary concerning abnormal occurrences shall be sent to NAVSEADET RASO within 30 days after the occurrence of the incident or the discovery thereof.

#### 4. Notification Information

- a. Chief of Naval Operations (N45)  
Washington, DC 20350-2000  
Telephone Number: (DSN) 332-2582/5365

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Commercial Number: (703) 602-2582/5365  
Message Address: CNO WASHINGTON DC//N45//

- b. Commander, Attn: SEA-07R Naval Sea Systems Command  
2531 Jefferson Davis Hwy, Arlington, VA 22232-5160  
Telephone Number: (DSN) 332-1223  
Commercial Number: (703) 602-1223  
Message Address: COMNAVSEASYS COM WASHINGTON DC//07R//
- c. Officer-in-Charge, Naval Sea Systems Command  
Detachment Radiological Affairs Support Office  
NWS P.O. Drawer 260, Yorktown, VA 23691-0260  
Telephone Number: (DSN) 953-4692  
Commercial Number: (804) 887-4692  
Message Address: NAVSEADET RASO YORKTOWN VA//00//
- d. Commandant of the Marine Corps (SD)  
2 Navy Annex, Washington, DC 20380-1775  
Telephone Number: (DSN) 224-1202/1077  
Commercial Number: (703) 614-1202/1077  
Fax Number: (202) 696-1083  
Message Address: CMC WASHINGTON DC//SD//
- e. NAVSEASYS COM (07R) and NAVSEADET RASO shall be information addressees to any OPREP-3 NAVY BLUE REPORT.

#### **Wipe Test Frequency**

Wipe tests are required (1) annually, (2) for suspected damage to the radioactive cell on the M88 Detector, and (3) prior to maintenance.

#### **Data Base**

Marine Corps Logistics Bases (Code 835-3) will maintain a data base of USMC owned M88 Detectors. This data will track the specific unit the instrument is assigned to, as well as wipe test data.

#### **Reconciliation Procedures**

1. To ensure the M88 Detector and equipment data at Marine Corps Logistics Bases, Albany, GA and using units is valid, a 100 percent reconciliation will be conducted bi-annually by all supply officers having the M88 Detector on their records. The supply officer will conduct inventories and provide information concerning M88 Detector

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serial and lot numbers; and module serial and lot numbers to COMMARCORLOGBASES, Albany, GA (Code 835-3). For the M88 Detector, the information is to arrive by 30 March and 30 September each year utilizing Naval message.

2. Marine Corps Logistics Bases (Code 835-3), Albany, GA will monitor the reconciliation process and:

a. Ensure the schedule is adhered to.

b. Verify field reports against local records to ensure accuracy.

3. The supply officer will review transactions which are rejected by MARCORLOGBASES (Code 835-3), Albany, GA and submit corrected transactions within 30 days of the initial suspense.

#### **Storage**

1. The M88 Detector should be stored in original shipping container for ease of movement when required

2. User storage areas shall be secured against unauthorized access. The storage areas shall be so located as to be free from danger of flooding and outside the danger radius of flammable and/or explosive materials.